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# NOTICE OF ALLOWANCE AND FEE(S) DUE

24201

7590

05/15/2009

FULWIDER PATTON LLP HOWARD HUGHES CENTER 6060 CENTER DRIVE, TENTH FLOOR LOS ANGELES, CA 90045 EXAMINER

HOFFMAN, BRANDON S

ART UNIT PAPER NUMBER

2436

DATE MAILED: 05/15/2009

APPLICATION NO.	FILING DATE FIRST NAMED INVENTOR		ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/631.326	08/01/2003	Raymond J. Gallagher III	MSKI-63168	5578

TITLE OF INVENTION: PATTERNLESS ENCRYPTION AND DECRYPTION SYSTEM AND METHOD

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	YES	\$755	\$0	\$0	\$755	08/17/2009

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

#### HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

#### PART B - FEE(S) TRANSMITTAL

#### Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

Commissioner for Patents P.O. Box 1450

Alexandria, Virginia 22313-1450 (571)-273-2885 or <u>Fax</u>

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where appropriate. All further correspondence including the Patent, advance orders and notification of maintenance fees will be mailed to the current correspondence address as indicated unless corrected below or directed otherwise in Block 1, by (a) specifying a new correspondence address; and/or (b) indicating a separate "FEE ADDRESS" for maintenance fee notifications.

Note: A certificate of mailing can only be used for domestic mailings of the CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address) Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission. 24201 7590 05/15/2009 Certificate of Mailing or Transmission FULWIDER PATTON LLP I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop ISSUE FEE address above, or being facsimile transmitted to the USPTO (571) 273-2885, on the date indicated below. **HOWARD HUGHES CENTER** 6060 CENTER DRIVE, TENTH FLOOR LOS ANGELES, CA 90045 (Depositor's name (Signature (Date APPLICATION NO. FIRST NAMED INVENTOR ATTORNEY DOCKET NO. CONFIRMATION NO. FILING DATE 10/631,326 08/01/2003 Raymond J. Gallagher III MSKI-63168 5578 TITLE OF INVENTION: PATTERNLESS ENCRYPTION AND DECRYPTION SYSTEM AND METHOD APPLN. TYPE SMALL ENTITY ISSUE FEE DUE PUBLICATION FEE DUE PREV. PAID ISSUE FEE TOTAL FEE(S) DUE DATE DUE nonprovisional YES \$755 \$0 \$0 \$755 08/17/2009 **EXAMINER** ART UNIT CLASS-SUBCLASS HOFFMAN, BRANDON S 2436 380-028000 1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363). 2. For printing on the patent front page, list (1) the names of up to 3 registered patent attorneys ☐ Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached. or agents OR, alternatively, (2) the name of a single firm (having as a member a ☐ "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer Number is required. registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed. 3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type) PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. If an assignee is identified below, the document has been filed for recordation as set forth in 37 CFR 3.11. Completion of this form is NOT a substitute for filing an assignment. (A) NAME OF ASSIGNEE (B) RESIDENCE: (CITY and STATE OR COUNTRY) 4b. Payment of Fee(s): (Please first reapply any previously paid issue fee shown above) 4a. The following fee(s) are submitted: lssue Fee A check is enclosed. Publication Fee (No small entity discount permitted) Payment by credit card. Form PTO-2038 is attached. The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment, to Deposit Account Number \_\_\_\_\_\_ (enclose an extra copy of this fo Advance Order - # of Copies \_ (enclose an extra copy of this form). 5. Change in Entity Status (from status indicated above) a. Applicant claims SMALL ENTITY status. See 37 CFR 1.27. ■ b. Applicant is no longer claiming SMALL ENTITY status. See 37 CFR 1.27(g)(2). NOTE: The Issue Fee and Publication Fee (if required) will not be accepted from anyone other than the applicant; a registered attorney or agent; or the assignee or other party in interest as shown by the records of the United States Patent and Trademark Office. Authorized Signature Date Typed or printed name Registration No. This collection of information is required by 37 CFR 1.311. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, Virginia 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450.

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10/631,326	08/01/2003	Raymond J. Gallagher III	MSKI-63168 5578		
24201	7590 05/15/2009		EXAMINER		
FULWIDER PATTON LLP			HOFFMAN, BRANDON S		
HOWARD HUGHES CENTER			ART UNIT	PAPER NUMBER	
6060 CENTER DRIVE, TENTH FLOOR LOS ANGELES, CA 90045			2436 DATE MAILED: 05/15/2009		

## **Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)**

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 600 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 600 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

	Application No. Applicant(s)				
	10/631,326		GALLAGHER, RAYMOND J.		
Notice of Allowability	Examiner		Art Unit	<u> </u>	
	BRANDON S. H	OEEMAN	2436		
	BRANDON 5. H	OFFIMAIN	2436		
The MAILING DATE of this communication apperature All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) O or other appropria IGHTS. This appl	CLOSED in this app ate communication ication is subject to	olication. If not include will be mailed in due	ed course. <b>THIS</b>	
1. This communication is responsive to <u>amendment filed Man</u>	rch 3, 2009.				
2. The allowed claim(s) is/are <u>1-14 and 16-29</u> .					
<ul> <li>3. ☐ Acknowledgment is made of a claim for foreign priority ur</li> <li>a) ☐ All b) ☐ Some* c) ☐ None of the:</li> <li>1. ☐ Certified copies of the priority documents have</li> </ul>	_	19(a)-(d) or (f).			
2. Certified copies of the priority documents have		Application No			
3. Copies of the certified copies of the priority do		· · · —		tion from the	
International Bureau (PCT Rule 17.2(a)).			•		
* Certified copies not received:					
Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.  THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.					
4. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give				OTICE OF	
5. CORRECTED DRAWINGS ( as "replacement sheets") mus	st be submitted.				
(a) ☐ including changes required by the Notice of Draftspers	on's Patent Draw	ng Review ( PTO-9	948) attached		
1) ☐ hereto or 2) ☐ to Paper No./Mail Date	•				
(b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date					
ldentifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).					
6. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.					
Attachment(s) 1. ☐ Notice of References Cited (PTO-892)	5 🗆 N	otice of Informal Pa	atent Application		
Notice of Preferences Oried (170-032)     Notice of Draftperson's Patent Drawing Review (PTO-948)		iterview Summary (			
· · · · · · · · · · · · · · · · · · ·	F	Paper No./Mail Date xaminer's Amendm	ė		
3. Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date	/. 🖾 C	Administ S AMERUM	ioni Comment		
4. Examiner's Comment Regarding Requirement for Deposit of Biological Material	_		nt of Reasons for Allo	wance	
/Brandon S Hoffman/	9. 🔲 C				
Primary Examiner, Art Unit 2436					

Art Unit: 2436

#### **Detailed Action**

1. Claims 1-14 and 16-29 are pending in this office action.

## **Allowable Subject Matter**

2. Claims 1-14 and 16-29 are allowed.

#### **Examiner's Amendment**

3. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Howard Sommers (U.S. Reg. No. 24,318) on May 6, 2009.

The application has been amended as follows:

Art Unit: 2436

1. (currently amended) A system for converting a message into a patternless encrypted message, wherein the message includes a plurality of message elements, for use with computer hardware, comprising:

encryption software, for use with computer hardware, which comprises an encryption substitution set, for converting the message into the patternless encrypted message, adapted to generate a table of substitutes for each message element, wherein the table is comprised of a plurality of randomly-generated set elements to be assigned to each of the plurality of message elements, and an encoding matrix which cross-multiples the message elements, to generate the patternless encrypted message, and wherein the encryption software includes multiple shiftkey replacement;

memory, for storing the encryption software; and a processor, for processing the encryption software.

16. (currently amended) A method of converting a message into a patternless encrypted message, wherein the message includes a plurality of message elements, for use with computer hardware, in a system which comprises encryption software, for use with computer hardware, which comprises an encryption substitution set, for converting the message into the patternless encrypted message, adapted to generate a table of substitutes for each message element, wherein the table is comprised of a plurality of randomly-generated set elements to be assigned to each of the plurality of message elements, and an encoding matrix which cross-multiples the message elements to generate the patternless encrypted message, and wherein the encryption software

includes multiple shiftkey replacement, <u>memory, for storing the encryption software, and</u> <u>a processor, for processing the encryption software,</u> wherein the method comprises:

using the encryption software with computer hardware;
storing the encryption software in the memory; and
processing the encryption software in the processor, which includes:
encrypting the message into the patternless encrypted message by the
encryption software which includes the multiple shiftkey replacement, including
generating a table of substitutes for each message element, which
includes

randomly generating each of the plurality of random set elements; assigning each of the plurality of randomly-generated set elements to each of the plurality of message elements; and

cross-multiplying the message elements through the encoding matrix, to generate the patternless encrypted message.

28. (Currently Amended) The method of claim [22] <u>24</u>, wherein the medium comprises the message language, and wherein calculating further comprises generating the table of substitutes wherein the number of substitutes for each element of the set in the multiple shiftkey replacement is a ratio of the frequency of each message element in the message language medium.

Art Unit: 2436

29. (Currently Amended) The method of claim [22] <u>24</u>, wherein the medium comprises the message, and wherein calculating further comprises generating the table of substitutes wherein the number of substitutes for each element of the set in the multiple shiftkey replacement is a ratio of the frequency of each message element in the message medium.

Art Unit: 2436

Any inquiry concerning this communication or earlier communications from the examiner should be directed to BRANDON S. HOFFMAN whose telephone number is (571)272-3863. The examiner can normally be reached on M-F 8:30 - 5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nasser G. Moazzami can be reached on 571-272-4195. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Brandon S Hoffman/ Primary Examiner, Art Unit 2436